IN THE CLAIMS:

Listing of Claims:

- 1 1. (original) A direction-finding method comprising the steps of:
- 2 identifying a transmitter by its transmission characteristics, the method
- 3 comprising the steps of:
- 4 receiving an incident transmission, said transmission defined by frequency
- 5 characteristics including a final resting frequency, said transmission emanating from a
- 6 spacially-defined bearing relative to said receiver;
- 7 generating a unique signature responsive to said characteristics of said
- 8 transmission;
- 9 classifying said signature responsive to said final resting frequency; and
- 10 comparing said signature with a set of other transmission signatures; and
- generating a transmitter-specific first line of bearing defined by said spacially
- 12 defined bearing and responsive to said comparing.
- 2. (original) The method of Claim 1, wherein said generating comprises generating
- 2 said unique signature by applying a Fourier Transform to said received transmission.
- 1 3. (original) The method of Claim 2, wherein said receiving comprises receiving a
- 2 transmission defined by at least a keyup frequency characteristic in addition to said final
- 3 resting frequency.
- 4. (original) The method of Claim 3, further comprising:
- 2 a first generating step prior to said signature generating step, said first generating
- 3 step comprising generating an intermediate frequency sample responsive to said received
- 4 incident transmission, said intermediate frequency sample defined by said frequency
- 5 characteristics; and

02/02/2006 12:49 6196922003 STEINS & ASSOCIATES PAGE 07

- 6 a second generating step prior to said signature generating step, said second
- 7 generating step comprising generating a digital intermediate frequency sample based on
- 8 said intermediate frequency sample.
- 1 5. (original) The method of Claim 4, wherein said signature generating step is
- 2 responsive to said frequency characteristics of said digital intermediate frequency sample.
- 1 6. (original) The method of Claim 5, wherein said comparing step comprises
- 2 comparing said transmission signature with a set of other transmission signatures, all of
- 3 said other transmission signatures defined by a final resting frequency classification
- 4 substantially the same as said transmission signature of said received transmission.
- 1 7. (original) The method of Claim 6, further comprising a second comparing step, said
- 2 second comparing step being executed when said set of other transmission signatures
- 3 fails to comprise a transmission signature defined by a final resting frequency
- 4 classification substantially the same as said transmission signature of said received
- 5 transmission, said second comparing step comprising comparing said received.
- 6 transmission signature to one or more sets of other transmission signatures defined by
- 7 final resting frequency classifications not substantially the same as said transmission
- 8 signature of said received transmission.
- 8. (original) The method of Claim 7, further comprising a data repository addition step
- 2 after said second comparing when said set of other transmission signatures fails to
- 3 comprise a transmission signature substantially the same as said transmission signature of
- 4 said received transmission, said data repository addition step comprising adding said
- 5 transmission signature of said received transmission to a data repository.
- 1 9. (original) The method of Claim 8, wherein said data repository addition step
- 2 comprises adding said transmission signature of said received transmission to a set of
- 3 said data repository defined by said final resting frequency of said received transmission.
- 1 10. (original) The method of Claim 9, further comprising repeating said identifying
- 2 step and said line of bearing generating step for a second said transmitter, whereby a
- 3 second line of bearing is generated.

08

- 1 11. (original) The method of Claim 10, further comprising displaying said first and
- 2 second lines of bearing on a single operator display interface.
- 1 12. (original) The method of Claim 11, wherein said first line of bearing is visually
- 2 distinct from said second line of bearing.
- 1 13. (original) The method of Claim 12, wherein said first and second lines of bearing
- 2 are colored differently.
- 1 14. (original) A emitter location system for determining the location of a source of an
- 2 incident transmission signal, comprising:
- 3 a receiver for receiving a said incident signal;
- 4 a transmission signature device, said transmission signature device comprising:
- 5 an analog-to-digital converter device for converting said incident signal
- 6 into digital data format;
- 7 a fourier transform generator for generating a transmission signature of
- 8 said received signal by applying a fourier transform to said digital data;
- 9 a matching system for matching said transmission signature of said
- 10 transmission with a set of transmission signatures stored in a data repository associated
- 11 with said matching system; and
- 12 a plotting device for plotting a line of bearing representative of the relative orientation
- 13 between said receiver and said source of said incident signals.